

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An adaptive array radio communication apparatus having a plurality of antennas, comprising:

an estimation means for estimating unit configured to estimate a correlation value between signals of a plurality of streams received at respective said plurality of antennas,

a display means for displaying unit configured to display said estimated correlation value between said signals of said plurality of streams, and

an antenna correlation adjustment means for causing unit configured to cause the correlation value between said signals of said plurality of streams to be altered manually by a user.

2. (Currently Amended) The adaptive array radio communication apparatus according to claim 1, wherein said display ~~means~~ unit displays the correlation value between said signals of said plurality of streams.

3. (Currently Amended) The adaptive array radio communication apparatus according to claim 1, wherein said display ~~means~~ unit displays a magnitude level of the correlation value between said signals of said plurality of streams.

4. (Currently Amended) The adaptive array radio communication apparatus according to claim 1, wherein said display ~~means~~ unit can selectively display the correlation value between said signals of said plurality of streams and a magnitude level of said correlation value as a display content,

said adaptive array radio communication apparatus further comprising a display content designation means for determining unit configured to determine the display content by said display ~~means~~ unit in accordance with designation by a user in advance.

5. (Currently Amended) The adaptive array radio communication apparatus according to claim 1, wherein said display ~~means~~ unit can selectively display the correlation

value between said signals of said plurality of streams and a magnitude level of said correlation value as a display content,

said adaptive array radio communication apparatus further comprising a display content switch ~~means for sequentially switching~~ unit configured to sequentially switch the display content by said display ~~means~~ unit periodically.

6. (Currently Amended) The adaptive array radio communication apparatus according to claim 1, further comprising an actuation ~~means for actuating~~ unit configured to automatically actuate said estimation ~~means~~ unit and said display ~~means~~ unit.

7. (Currently Amended) The adaptive array radio communication apparatus according to claim 1, further comprising an actuation ~~means for actuating~~ unit configured to actuate said estimation ~~means~~ unit and said display ~~means~~ unit in accordance with designation by a user.

8. (Canceled).

9. (Canceled).

10. (Currently Amended) The adaptive array radio communication apparatus according to claim 8, further comprising an actuation unit configured to ~~means for actuating~~ automatically actuate said estimation ~~means~~ unit and said antenna correlation adjustment ~~means~~ unit.

11. (Currently Amended) The adaptive array radio communication apparatus according to claim 8, further comprising an actuation unit configured to actuate ~~means for actuating~~ said estimation ~~means~~ unit and said antenna correlation adjustment ~~means~~ unit in accordance with designation by a user.

12. (Original) An antenna correlation display method of an adaptive array radio communication apparatus having a plurality of antennas, said method comprising the steps of:
estimating a correlation value between signals of a plurality of streams received at respective said plurality of antennas,

displaying said estimated correlation value between said signals of said plurality of streams;

receiving a user input for causing the estimated correlation value to be altered by a user; and

readjusting the plurality of antennas based on the user-altered correlation value.

13. (Original) The antenna correlation display method according to claim 12, wherein said display step displays the correlation value between said signals of said plurality of streams.

14. (Original) The antenna correlation display method according to claim 12, wherein said display step displays a magnitude level of the correlation value between said signals of said plurality of streams.

15. (Canceled).

16. (Canceled).

17. (Currently Amended) **[[An]]** A computer readable medium storing an antenna correlation display computer program product of an adaptive array radio communication apparatus having a plurality of antennas, the computer program product causing a computer to execute the steps of:

estimating a correlation value between signals of a plurality of streams received at respective said plurality of antennas**[[,]]**;

displaying said estimated correlation value between said signals of said plurality of streams;

receiving a user input for causing the estimated correlation value to be altered by a user; and

readjusting the plurality of antennas based on the user-altered correlation value.

18. (Currently Amended) The ~~antenna correlation display program~~ computer readable medium according to claim 17, wherein said display step displays the correlation value between said signals of said plurality of streams.

19. (Currently Amended) The ~~antenna correlation display program~~ computer readable medium according to claim 17, wherein said display step displays a magnitude level of the correlation value between said signals of said plurality of streams.

20. (Canceled).

21. (Currently Amended) The adaptive array radio communication apparatus according to claim 1, wherein said display ~~means~~ unit displays said estimated correlation value as a numeric value, and wherein the user manually adjusts a separation between said plurality of antennas to make the correlation value to be smaller while viewing a current numeric value of said estimated correlation value on said display ~~means~~ unit.

22. (Currently Amended) The adaptive array radio communication apparatus according to claim 1, wherein said display ~~means~~ unit displays said estimated correlation value as in either a high range, a middle range, or a low range, by way of turning on one of a first, second and third LED on said display ~~means~~ unit.

23. (Previously Presented) The antenna correlation adjustment method according to claim 12, wherein said estimated correlation value is displayed as a numeric value, and wherein the user manually adjusts a separation between said plurality of antennas to make the correlation value to be smaller while viewing a current numeric value of said estimated correlation value that is being displayed.

24. (Previously Presented) The adaptive antenna correlation adjustment method according to claim 12, wherein said estimated correlation value is displayed as in either a high range, a middle range, or a low range, by way of turning on one of a first, second and third LED on a display.

25. (Currently Amended) The ~~antenna correlation display program~~ computer readable medium according to claim 17, wherein said estimated correlation value is displayed as a numeric value, and wherein the user manually adjusts a separation between said plurality of antennas to make the correlation value to be smaller while viewing a current numeric value of said estimated correlation value that is being displayed.

26. (Currently Amended) The ~~antenna correlation display program~~ computer readable medium according to claim 17, wherein said estimated correlation value is displayed as in either a high range, a middle range, or a low range, by way of turning on one of a first, second and third LED on a display.

27. (New) An adaptive array radio communication apparatus having a plurality of antennas, comprising:

an estimation unit configured to estimate a correlation value between signals of a plurality of streams received at respective said plurality of antennas; and

an antenna correlation adjustment unit configured to alter the correlation value between said signals of said plurality of streams such that said estimated correlation value becomes smaller.

28. (New) An adaptive array radio communication apparatus according to claim 27, wherein said antenna correlation adjustment unit comprises:

an antenna driving unit configured to modify an angle between a plurality of antennas; and

a control unit configured to control said antenna driving unit such that an angle between said plurality of antennas is modified to cause said correlation value to become lower than a predetermined threshold value.

29. (New) An antenna correlation adjustment method of an adaptive array radio communication apparatus having a plurality of antennas, said method comprising the steps of:

estimating a correlation value between signals of a plurality of streams received at respective said plurality of antennas; and

altering the correlation value between said signals of said plurality of streams such that said estimated correlation value becomes smaller.

30. (New) The antenna correlation adjustment method according to claim 29, wherein said correlation value altering step further includes the step of modifying an angle between said plurality of antennas such that said correlation value becomes lower than a predetermined value.

31. (New) An antenna correlation display computer program product of an adaptive array radio communication apparatus having a plurality of antennas, the computer program product being embodied in computer readable media and causing a computer to execute the steps of:

estimating a correlation value between signals of a plurality of streams received at respective said plurality of antennas; and

altering the correlation value between said signals of said plurality of streams such that said estimated correlation value becomes smaller.